

**REMARKS**

In the official action, the title has been objected to as not being descriptive. In response thereto, the title has been amended as suggested to read "A Security System for Communication Environment".

The specification was objected to for failure to provide appropriate headings. In response, the specification has been amended to include specific headings.

Certain informalities have been noted in claims 1 and 9, which have been objected to on this ground. These claims have been amended as suggested.

Accordingly, the objections have been obviated.

It has also been noted that the original claims were nine rather than ten in number. There was no claim number 4. The claims were numbered 1-3, and 5-10. Accordingly, the claims have been renumbered 1-9. A new claim 10 has also been added which depends from claim 2.

In addition, claim 7 (old claim 8) has been amended to no longer be dependent from claim 5 (old claim 6). Also, claim 8 (old claim 9) has been amended so as to be only dependent from claim 2. Claim 9 (old claim 10) no longer depends on claim 7 (old claim 8). Claim 9 (old claim 10) has been amended to replace "signed messages" with "messages signed by the characteristic data set provided by the finger print sensor."

Still further, it was noted that multiple dependent claims are present in the originally filed claims. However, the multiple dependent fee box was not checked nor was the multiple dependent claim fee submitted, albeit that the transmittal authorized

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charging any fees that may be required to a deposit account. The requisite fee is being submitted concurrently by way of a separate transmittal letter.

Claims 1-10 have been rejected under 35 USC 103(a) as being unpatentable over Mathurin, Jr. in view of Bricaud et al. It is essentially argued that Mathurin, Jr. discloses all of the claimed elements except for suggesting that the card is formatted into a PC card. The latter is argued to be supplied by the Bricaud reference. It is argued that it would be obvious for an artisan at the time that the invention was made to modify the card of Mathurin, Jr. into the well known PC card.

This rejection is traversed for the following reasons. To establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the references or to combine the references or teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference...must teach or suggest all the claim limitations." MPEP Sec. 2143.

Mathurin, Jr. shows a device designed to compare a scanned fingerprint with the fingerprint data stored on the magnetic strip of a credit card. A digitized reproduction of the fingerprint is displayed on the credit card, thus enabling a thief to prepare a copy of the fingerprint which could be presented to the scanner of the device. Mathurin, Jr. neither discloses a chip card nor a chip card reader in the format of a PC card. Further, the reference does not teach validating personal data read from a chip card depending on data provided by the fingerprint sensor, since

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the reference is silent about an association provided between the fingerprint data and any personal data stored on the card.

Bricaud et al. shows a PC card unit for connecting a Micro SIM card to a host connector. However, a person skilled in the art does not learn that such a PC card unit may be extended in its functionality to include a fingerprint sensor and means for processing data received from a fingerprint sensor. Neither Bricaud et al. nor Mathurin, Jr. suggest providing a system with a fingerprint sensor coupled to a chip card reader enabling an identity and authorization check of the user as recited in the specification on page 2, at the end the of top paragraph. Claim 1 has been newly amended to reflect this feature of the invention.

There is no suggestion or motivation for making the combination urged. It is not made obvious by saying it would be more "convenient" or "expedient." Similarly there is no expectation of success that a SIM card could be used as a fingerprint sensor and means for processing data received from such.

Therefore, claim 1 and all dependent claims numbered 2-10 should be allowable over Mathurin, Jr. and Bricaud et al.

The cited references are not suggestive of fitting a security system according to claim 1 between a data processing apparatus (host PC) and a network connection as is possible with a configuration according to claim 7 (old claim 8), especially with a network interface contained in the (sensor) module according to claim 8 (old claim 9). Still further claim 9 (old claim 10) recites how messages signed by the characteristic data set are related to the communication environment and the interface.

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Still further, new claim 10 has been added by amendment reflective of another feature of the invention. The claim has support in the specification on page 5, lines 16-20.

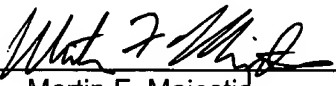
In view of the above, it is believed that claims 1-10 are in condition for allowance.

Please grant any extensions of time required to enter this response and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

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Dated: June 14, 2002

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**APPENDIX TO AMENDMENT OF JUNE 14, 2002**

**In the Specification:**

The title beginning on page 1, line 1, has been amended as follows:

--A-- Security System --for Communication Environment--

On page 1, between lines 4 and 5, insert the following new line:

--BACKGROUND OF THE INVENTION--

On page 1, between lines 28 and 29, insert the following new line:

--SUMMARY OF THE INVENTION--

On page 3, the first full paragraph, lines 4 to 6, has been amended as follows:

Further features and advantages of the invention will be obvious from the following description and from the drawings to which reference is made--.-- "and in which:"

On page 3, between lines 6 and 7, insert the following new line:

--BRIEF DESCRIPTION OF THE DRAWINGS--

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On page 3, between lines 20 and 21, insert the following new line:

--DETAILED DESCRIPTION--

**In the claims:**

Claim 1 has been amended as follows:

1. (Amended) A security system for identity and authorization checking in a protected communication environment, comprising:
  - a chip card reader in the format of a PC card;
  - a chip card having personal data stored thereon;
  - a fingerprint sensor which is coupled to the chip card reader;
  - a validation means for validating the personal [information] data read from the chip card depending on data provided by the fingerprint sensor[.] enabling an identity and authorization check of the user.

Claims 5 to 10 have been renumbered and amended as follows:

- [5]4. (Amended) The security system according to claim 3, characterized in that a slot is disposed in the module for the chip card to pass therethrough.
- [6]5. (Amended) The security system according to any of claims 2 to 4, characterized in that the module includes a SAM or SIM card reader.
- [7]6. (Amended) The security system according to claim 5, characterized in that the data provided by the fingerprint sensor is processed along with the data read from the SAM or SIM card in an internal processor of the module to yield an encoded identity information.

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[8]7. (Amended) The security system according to any of claims 1 to [7] 4 or 6, characterized by an interface for the connection to a communication system, in particular a network.

[9]8. (Amended) The security system according to claim[s] 2 [and 8], characterized in that the interface is contained in the module.

[10]9. (Amended) The security system according to claim [7 or] 8, characterized in that [signed] messages signed by the characteristic data set provided by the fingerprint sensor are able to be exchanged with the communication environment via the interface.

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